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Monolithic metallic catalyst substrates offering improved heat conductivity are provided from metal powder extrusion batches of copper, tin, zinc, aluminum, iron, silver, nickel, and mixtures and alloys thereof by extrusion through a honeycomb extrusion die followed by drying and firing in a two stage firing process to oxidize organic extrusion batch components, remove residual oxides from the porous wall structure, and consolidate the metal powders to strong, integral honeycomb support structures.